

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2021-04-23 11:35:30  
Date of Next Testing: 2025-04-22 11:35:30  
Product Name: **Girard's reagent T**  
CAS Number: 123-46-6  
Specifications & Purity: 98%  
Lot #: D2117027  
SKU #: **G108418**  
**Analysis:** **008029**  
Storage Temperature: Argon charged

| Parameter                               | Limit Values                          | Result                                |
|---|---------------------------------------|---------------------------------------|
| Melting point                           | 188-192 (°C)                          | 188.06000 °C                          |
| Purity(Titration by AgNO <sub>3</sub> ) | 98-100 (%)                            | 98.92 %                               |
| Appearance (G108418)                    | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Proton NMR spectrum                     | Conforms to Structure                 | Conforms to Structure                 |

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager